

Floating & Sinking Notes Review

Name: _____ Date: _____

Table: _____ Section: _____

- 1) How does the buoyant force affect a submerged object?
- 2) How does Archimedes' principle relate the buoyant force acting on an object to the fluid displaced by the object?
- 3) An object that weighs 340 N floats on a lake. What is the weight of the displaced water? What is the buoyant force?
- 4) What is density and what is the formula to find it?
- 5) How can you use the density of an object to predict whether it will float or sink in water?

Performance Task: Practice Measuring Density

Procedure

- 1) Gather a volumetric block set, triple beam balance, and a graduated cylinder.
- 2) Fill the graduated cylinder half way with water.
- 3) Measure the volume and the mass of the 4 volumetric cubes

Aluminum: Mass: _____

Volume: _____

Copper: Mass: _____

Volume: _____

Brass: Mass: _____

Volume: _____

Steel: Mass: _____

Volume: _____

- 4) Find the Density of each volumetric cube:

Aluminum: Density: _____

Copper: Density: _____

Brass: Density: _____

Steel: Density: _____

- 5) How does measuring the mass and volume relate to the density of an object?

- 6) What does it mean water is displaced by an object?